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1. An intelligent system control agent for coordinating user requested jobs among a plurality of clients, comprising:

a user interface module configured to receive user requests;

a client selection module configured to select one of a plurality of clients to service a user request according to a predetermined criterion, the clients comprising a plurality of queue types, each having an individual scheme for prioritizing jobs; and

a communication module configured to submit the user request to the selected client.

2. The intelligent system control agent of claim 1, further comprising a state awareness module configured to maintain an awareness of the state of the selected client.

3. The intelligent system control agent of claim 1, further comprising an agent communication protocol module configured to communicate with software located within a client of the plurality of clients.

4. The intelligent system control agent of claim 1, further comprising an agent endpoint module configured to enable the relocation of the system control agent.

5. The intelligent system control agent of claim 1, further comprising a federation module configured to allow cross-communication and interaction between a plurality of system control agents.

6. The intelligent system control agent of claim 1, further comprising a job relocation module configured to relocate a user requested job from one client to another.

1           7.     The intelligent system control agent of claim 1, further comprising a state  
2 storage module configured to store the state of jobs being relocated from one client to  
3 another;

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5           8.     A system for remotely controlling clients from a central location, the  
6 system comprising:

7                 a plurality of clients;

8                 an agent configured to receive user requests from a user and determine  
9 based upon a predetermined criterion which of a plurality of the clients to submit  
10 each user request to, the clients comprising a plurality of queue types, each having  
11 an individual scheme for prioritizing jobs; and

12                 a communication channel configured to send the requests to the specified  
13 client.

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15           9.     The system of claim 8, further comprising a job execution module  
16 configured to determine a suitable queue for each request sent to the client.

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18           10.    The system of claim 9, wherein the job execution module comprises an  
19 asynchronous queue configured to run requests simultaneously within a specified client.

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21           11.    The system of claim 9, wherein the job execution module comprises a  
22 synchronous queue configured to run requests in the order the requests were received by a  
23 specified client.

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25           12.    The system of claim 9, wherein the job execution module comprises an  
26 exclusive queue configured to run requests exclusive of any other requests in any other  
27 queue on the system.

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2 13. The system of claim 8, further comprising a stub software module  
3 configured to control execution of a request residing on a specified client.

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5 14. The system of claim 13, wherein at least one of the clients is remote to the  
6 agent.

7  
8 15. A method of operating a software control agent, comprising:  
9 receiving a user request;  
10 automatically selecting based upon a predetermined criterion one of a  
11 plurality of clients to submit the request to for service of the request, the clients  
12 comprising a plurality of queue types, each having an individual scheme for  
13 prioritizing jobs; and  
14 sending the request over a communication channel to the selected client.

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16 16. The method of claim 15, further comprising automatically relocating a  
17 software control agent from one computer station within a network to another computer  
18 station within a network.

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20 17. The method of claim 15, further comprising maintaining an awareness of  
21 the state of a client of the plurality of clients.

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23 18. The method of claim 15, further comprising providing an agent  
24 communication protocol module and communicating with the software located within the  
25 client.

1           19.    The method of claim 15, further comprising providing an agent endpoint  
2 module configured to allow the mobility of an agent from one system to another.

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4           20.    The method of claim 15, further comprising communicating and  
5 interacting with a plurality of agents.

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7           21.    The method of claim 15, further comprising relocating a user requested job  
8 from one client to another.

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10          22.    The method of claim 21, further comprising relocating a user requested job  
11 from one client to another.  
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1           23.    The method of claim 16, wherein automatically relocating an agent from  
2 one computer system within a network to another computer system within a network  
3 further comprises:

4                    instructing the agent to relocate to a known agent endpoint by a system  
5 administrator;  
6                    stopping to accept new job requests by the agent;  
7                    waiting for pending/current requests relocations to finish by the agent;  
8                    flushing in-process requests to a state storage system by the agent;  
9                    requesting the new endpoint to instantiate a new agent by the agent;  
10                   waiting while the new agent populates its database with the data from the  
11 state storage system by the agent;  
12                   sending a message to all federated agents that the agent for this domain is  
13 relocated to the new agent by a first agent;  
14                   sending a message to all clients in the domain that the agent is relocated to  
15 the new agent by the first agent; and  
16                   sending a request to the first agent's endpoint to close the first agent by the  
17 new agent.

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19           24.    The method of claim 15, further comprising automatically relocating a  
20 request from one client within a network to another client within the network.

1           25. The method of claim 24, wherein automatically relocating a request from  
2 one client within a network to another client within a network further comprises:

3           instructing a client to relocate a current request by a system administrator  
4 or agent;  
5           sending requests to a state storage system by a client;  
6           sending instructions to a new client to access requests from the state  
7 storage system by the agent;  
8           accessing requests from the state storage system by the new client; and  
9           relocating the request to the new client station.

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11           26. An article of manufacture comprising a storage medium readable by a  
12 processor and to perform a method of operating a software control agent, comprising:

13           receiving a user request;  
14           automatically selecting based upon a predetermined criterion one of a  
15 plurality of clients to submit the request to for service of the request; and  
16           sending the request over a communication channel to the selected client.

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18           27. The article of manufacture of claim 26, further comprising automatically  
19 relocating a software control agent from one computer station within a network to another  
20 computer station within a network.

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22           28. The article of manufacture of claim 26, further comprising maintaining an  
23 awareness of the state of a client of the plurality of clients.

24  
25           29. The article of manufacture of claim 26, further comprising providing an  
26 agent communication protocol module and communicating with the software located  
27 within the client.

- instructing the agent to relocate to a known agent endpoint by a system administrator;
- stopping to accept new job requests by the agent;
- waiting for pending/current requests relocations to finish by the agent;
- flushing in-process requests to a state storage system by the agent;
- requesting the new endpoint to instantiate a new agent by the agent;
- waiting while the new agent populates its database with the data from the state storage system by the agent;
- sending a message to all federated agents that the agent for this domain is relocated to the new agent by a first agent;
- sending a message to all clients in the domain that the agent is relocated to the new agent by the first agent; and
- sending a request to the first agent's endpoint to close the first agent by the new agent.